

Global PERC Cell Laser Ablation Device Market Growth 2026-2032

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Abstracts

The global PERC Cell Laser Ablation Device market size is predicted to grow from US\$ million in 2025 to US\$ million in 2032; it is expected to grow at a CAGR of %from 2026 to 2032.

PERC cell laser ablation equipment is a special equipment used to pattern and groove the back passivation layer in the production process of PERC (Passivated Emitter and Rear Cell) solar cells. In the PERC cell production process, laser ablation technology is used to pattern the backside passivation stack to ensure the high quality and efficiency of the PERC cell process. This equipment uses a laser beam to precisely control the high-temperature heating of the silicon wafer surface to reach the melting point or vaporization point, thereby achieving local ablation of the backside passivation layer. In this way, laser ablation equipment can help optimize the photoelectric performance of the battery and improve the photoelectric conversion efficiency.

As the international community continues to pay more attention to renewable energy, the photovoltaic market continues to develop, and the PERC battery market continues to grow, which directly drives the demand for laser ablation equipment market growth. Especially in the production process of PERC cells, laser ablation technology is widely used for patterned grooves of the back passivation layer. Therefore, the demand for laser ablation equipment has also increased. In addition, the development of the PERC cell laser ablation equipment market also benefits from the integration and coordinated development of the photovoltaic industry chain. Technological progress and cost reductions in the upstream parts of the photovoltaic industry chain, including silicon materials, silicon wafers, and cells, have provided a broader space for development of the laser ablation equipment market. At the same time, the demand for efficient, stable and reliable PERC cells in downstream photovoltaic power station construction and

operation is also increasing, which has also promoted the development of the laser ablation equipment market. In short, the PERC battery laser ablation equipment market has broad development prospects and potential.

LP Information, Inc. (LPI) ' newest research report, the "PERC Cell Laser Ablation Device Industry Forecast" looks at past sales and reviews total world PERC Cell Laser Ablation Device sales in 2025, providing a comprehensive analysis by region and market sector of projected PERC Cell Laser Ablation Device sales for 2026 through 2032. With PERC Cell Laser Ablation Device sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world PERC Cell Laser Ablation Device industry.

This Insight Report provides a comprehensive analysis of the global PERC Cell Laser Ablation Device landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on PERC Cell Laser Ablation Device portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global PERC Cell Laser Ablation Device market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for PERC Cell Laser Ablation Device and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global PERC Cell Laser Ablation Device.

This report presents a comprehensive overview, market shares, and growth opportunities of PERC Cell Laser Ablation Device market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

YAG Laser

CO2 Laser

Segmentation by Application:

- Solar Panel Manufacturing
- Photovoltaic Module Manufacturing
- Research Institutions
- Other

This report also splits the market by region:

Americas

- United States
- Canada
- Mexico
- Brazil

APAC

- China
- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Wuhan DR Laser Technology

Lumentum

Coherent

IPG Photonics

Trumpf

GT Advanced Technologies

Han's Laser Technology Industry Group

Mitsubishi Electric

CENTRAL GLASS

RENA Technologies

LIMO Lissotschenko Mikrooptik

AMTECH Systems

Newport Corporation

Key Questions Addressed in this Report

What is the 10-year outlook for the global PERC Cell Laser Ablation Device market?

What factors are driving PERC Cell Laser Ablation Device market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do PERC Cell Laser Ablation Device market opportunities vary by end market size?

How does PERC Cell Laser Ablation Device break out by Type, by Application?

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